

1997-269.ST25.txt
SEQUENCE LISTING

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<130> 1997-269-US
<150> EP 97201599.4
<151> 1997-05-26
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<220>
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20 25 30

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Lys Val Trp Val Pro Pro Glu Asp Pro Leu Ala Ser Pro Ser Arg Leu
35 40 45 50

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Leu Pro Glu Asn Glu Glu Tyr Glu Thr Asp Gln Ile Leu Pro Asp Leu
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Ala Trp Met Arg Gln Ile Glu Gly Ala Val Leu Lys Pro Thr Leu Ser
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Leu Pro Ile Gly Asp Gln Glu Tyr Phe Pro Lys Tyr Tyr Pro Thr His
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Arg Leu Ala Lys Phe Leu Arg Glu Asn Gly Tyr Lys Val Leu Gln Pro
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Arg Ser Leu Pro Glu Asn Glu Glu Tyr Glu Thr Asp Gln Ile Leu Pro
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 115 120 125

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Asp Lys Ala Tyr Gly Ser Gly Thr Tyr Met Gly Gln Ala Asn Arg Leu
 165 170 175

Val Ala Met Lys Glu Val Ala Thr Gly Arg Asn Pro Asn Lys Asp Pro
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Leu Lys Leu Gly Tyr Thr Phe Glu Ser Ile Ala Gln Leu Leu Asp Ile
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Thr Leu Pro Val Gly Pro Pro Gly Glu Asp Asp Lys Pro Trp Val Pro
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Ser Ser Gly Leu Pro Tyr Val Gly Arg Thr Lys Gly Glu Thr Ile Gly
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Cys Pro Ser Leu Tyr Lys Phe Asn Pro Phe Arg Gly Gly Leu Asn Arg
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Ala Asp Asn Ile Tyr Ile Val His Ser Asn Thr Trp Tyr Ser Ile Asp
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Asp Ser Glu Glu Phe Lys Ser Ile Glu Asp Lys Leu Gly Ile Asn Phe
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 625 630 635 640

Cys Lys Asn Asn Ala Gly Ala Ala Arg Arg His Leu Glu Ala Lys Gly
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Phe Pro Leu Asp Glu Phe Leu Ala Glu Trp Ser Glu Leu Ser Glu Phe
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725 730 735

Leu Ala Thr Ala Arg Ser Arg Leu Gln Asp Ala Val Lys Ala Lys Ala
740 745 750

Glu Ala Glu Lys Leu His Lys Ser Lys Pro Asp Asp Pro Asp Ala Asp
755 760 765

Trp Phe Glu Arg Ser Glu Thr Leu Ser Asp Leu Leu Glu Lys Ala Asp
770 775 780

Ile Ala Ser Lys Val Ala His Ser Ala Leu Val Glu Thr Ser Asp Ala
785 790 795 800

Leu Glu Ala Val Gln Ser Thr Ser Val Tyr Thr Pro Lys Tyr Pro Glu
805 810 815

Val Lys Asn Pro Gln Thr Ala Ser Asn Pro Val Val Gly Leu His Leu
820 825 830

Pro Ala Lys Arg Ala Thr Gly Val Gln Ala Ala Leu Leu Gly Ala Gly
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Met Val Ser Arg Asp Gln
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Thr Asn Asp Arg Ser Asp Asp Lys Pro Ala Arg Ser Asn Pro Thr Asp
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Cys Ser Val His Thr Glu Pro Ser Asp Ala Asn Asn Arg Thr Gly Val
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cat tcc gga cga cac cct gga gaa gca cac tct cag gtc aga gac ctc 258
His Ser Gly Arg His Pro Gly Glu Ala His Ser Gln Val Arg Asp Leu
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gac cta caa ttt gac tgt ggg gga cac agg gtc agg gct aat tgt ctt 306
Asp Leu Gln Phe Asp Cys Gly Gly His Arg Val Arg Ala Asn Cys Leu
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Phe Pro Trp Ile Pro Trp Leu Asn Cys Gly Cys Ser Leu His Thr Ala
75 80 85

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Pro Thr Gly Gln Leu Gln Leu Leu Gln Ala Ser Glu Ser Glu Ser His
105 110 115

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Ser Glu Val Lys His Thr Ser Trp Trp Arg Leu Cys Thr Lys Arg His
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cat aaa cgc cgt gac ctt cca agg aag cct gag tgaactgaca gatgttagct 551
His Lys Arg Arg Asp Leu Pro Arg Lys Pro Glu
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 35 40 45

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Val Arg Ala Asn Cys Leu Phe Pro Trp Ile Pro Trp Leu Asn Cys Gly
 65 70 75 80

Cys Ser Leu His Thr Ala Gly Gln Trp Glu Leu Gln Val Arg Ser Asp
 85 90 95

Ala Pro Asp Cys Pro Glu Pro Thr Gly Gln Leu Gln Leu Leu Gln Ala
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Leu Cys Thr Lys Arg His His Lys Arg Arg Asp Leu Pro Arg Lys Pro
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Glu
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<210> 5
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1997-269.ST25.txt

<222> (131)..(3166)

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Met Thr Asn Leu Gln Asp Gln Thr Gln Gln Ile Val Pro
1 5 10

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Phe Ile Arg Ser Leu Leu Met Pro Thr Thr Gly Pro Ala Ser Ile Pro
15 20 25

gac gac acc ctg gag aag cac act ctc agg tca gag acc tcg acc tac 265
Asp Asp Thr Leu Glu Lys His Thr Leu Arg Ser Glu Thr Ser Thr Tyr
30 35 40 45

aat ttg act gtg ggg gac aca ggg tca ggg cta att gtc ttt ttc cct 313
Asn Leu Thr Val Gly Asp Thr Gly Ser Gly Leu Ile Val Phe Phe Pro
50 55 60

gga ttc cct ggc tca att gtg ggt gct cac tac aca ctg cag ggc aat 361
Gly Phe Pro Gly Ser Ile Val Gly Ala His Tyr Thr Leu Gln Gly Asn
65 70 75

ggg aac tac aag ttc gat cag atg ctc ctg act gcc cag aac cta ccg 409
Gly Asn Tyr Lys Phe Asp Gln Met Leu Leu Thr Ala Gln Asn Leu Pro
80 85 90

gcc agt tac aac tac tgc agg cta gtg agt cgg agt ctc aca gtg agg 457
Ala Ser Tyr Asn Tyr Cys Arg Leu Val Ser Arg Ser Leu Thr Val Arg
95 100 105

tca agc aca ctt cct ggt ggc gtt tat gca cta aac ggc acc ata aac 505
Ser Ser Thr Leu Pro Gly Gly Val Tyr Ala Leu Asn Gly Thr Ile Asn
110 115 120 125

gcc gtg acc ttc caa gga agc ctg agt gaa ctg aca gat gtt agc tac 553
Ala Val Thr Phe Gln Gly Ser Leu Ser Glu Leu Thr Asp Val Ser Tyr
130 135 140

aat ggg ttg atg tct gca aca gcc aac atc aac gac aaa att ggg aac 601
Asn Gly Leu Met Ser Ala Thr Ala Asn Ile Asn Asp Lys Ile Gly Asn
145 150 155

gtc cta gta ggg gaa ggg gtc acc gtc ctc agc tta ccc aca tca tat 649
Val Leu Val Gly Glu Gly Val Thr Val Leu Ser Leu Pro Thr Ser Tyr
160 165 170

gat ctt ggg tat gtg agg ctt ggt gac ccc att ccc gca ata ggg ctt 697
Asp Leu Gly Tyr Val Arg Leu Gly Asp Pro Ile Pro Ala Ile Gly Leu
175 180 185

gac cca aaa atg gta gcc aca tgt gac agc agt gac agg ccc aga gtc 745
Asp Pro Lys Met Val Ala Thr Cys Asp Ser Ser Asp Arg Pro Arg Val
190 195 200 205

tac acc ata act gca gcc gat gat tac caa ttc tca tca cag tac caa 793
Tyr Thr Ile Thr Ala Ala Asp Asp Tyr Gln Phe Ser Ser Gln Tyr Gln
210 215 220

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cca ggt ggg gta aca atc aca ctg ttc tca gcc aac att gat gcc atc Pro Gly Gly Val Thr Ile Thr Leu Phe Ser Ala Asn Ile Asp Ala Ile	841
225 230 235	
aca agc ctc agc gtt ggg gga gag ctc gtg ttt caa aca agc gtc cac Thr Ser Leu Ser Val Gly Gly Glu Leu Val Phe Gln Thr Ser Val His	889
240 245 250	
ggc ctt gta ctg ggc gcc acc atc tac ctc ata ggc ttt gat ggg aca Gly Leu Val Leu Gly Ala Thr Ile Tyr Leu Ile Gly Phe Asp Gly Thr	937
255 260 265	
acg gta atc acc agg gct gtg gcc gca aac aat ggg ctg acg acc ggc Thr Val Ile Thr Arg Ala Val Ala Ala Asn Asn Gly Leu Thr Thr Gly	985
270 275 280 285	
acc gac aac ctt atg cca ttc aat ctt gtg att cca aca aac gag ata Thr Asp Asn Leu Met Pro Phe Asn Leu Val Ile Pro Thr Asn Glu Ile	1033
290 295 300	
acc cag cca atc aca tcc atc aaa ctg gag ata gtg acc tcc aaa agt Thr Gln Pro Ile Thr Ser Ile Lys Leu Glu Ile Val Thr Ser Lys Ser	1081
305 310 315	
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320 325 330	
gca gtg acg atc cat ggt ggc aac tat cca ggg gcc ctc cgt ccc gtc Ala Val Thr Ile His Gly Glu Asn Tyr Pro Gly Ala Leu Arg Pro Val	1177
335 340 345	
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350 355 360 365	
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370 375 380	
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385 390 395	
aca aaa ttg ata ctg agt gag agg gac cgt ctt ggc atc aag acc gtc Thr Lys Leu Ile Leu Ser Glu Arg Asp Arg Leu Gly Ile Lys Thr Val	1369
400 405 410	
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415 420 425	
gcc gac ctc aac tct ccc ctg aag att gca gga gca ttc ggc ttc aaa Ala Asp Leu Asn Ser Pro Leu Lys Ile Ala Gly Ala Phe Gly Phe Lys	1465
430 435 440 445	
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450 455 460	
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465	470	475	
gac tac ctg ctg ggc gat gag gca cag gct gct tca gga act gct cga			1609
Asp Tyr Leu Leu Gly Asp Glu Ala Gln Ala Ala Ser Gly Thr Ala Arg			
480	485	490	
gcc gcg tca gga aaa gca aga gct gcc tca ggc cgc ata agg cag ctg			1657
Ala Ala Ser Gly Lys Ala Arg Ala Ala Ser Gly Arg Ile Arg Gln Leu			
495	500	505	
act ctc gcc gcc gac aag ggg tac gag gta gtc gcg aat cta ttc cag			1705
Thr Leu Ala Ala Asp Lys Gly Tyr Glu Val Val Ala Asn Leu Phe Gln			
510	515	520	
gtg ccc cag aat ccc gta gtc gac ggg att ctt gct tca cct ggg gta			1753
Val Pro Gln Asn Pro Val Val Asp Gly Ile Leu Ala Ser Pro Gly Val			
530	535	540	
ctc cgc ggt gca cac aac ctc gac tgc gtg tta aga gag ggt gcc acg			1801
Leu Arg Gly Ala His Asn Leu Asp Cys Val Leu Arg Glu Gly Ala Thr			
545	550	555	
cta ttc cct gtg gtt att acg aca gtg gaa gac gcc atg aca ccc aaa			1849
Leu Phe Pro Val Val Ile Thr Thr Val Glu Asp Ala Met Thr Pro Lys			
560	565	570	
gca ttg aac agc aaa atg ttt gct gtc att gaa ggc gtg cga gaa gac			1897
Ala Leu Asn Ser Lys Met Phe Ala Val Ile Glu Gly Val Arg Glu Asp			
575	580	585	
ctc caa cct cca tct caa aga gga tcc ttc ata cga act ctc tct gga			1945
Leu Gln Pro Pro Ser Gln Arg Gly Ser Phe Ile Arg Thr Leu Ser Gly			
590	595	600	
cac aga gtc tat gga tat gct cca gat ggg gta ctt cca ctg gag act			1993
His Arg Val Tyr Gly Tyr Ala Pro Asp Gly Val Leu Pro Leu Glu Thr			
610	615	620	
ggg aga gac tac acc gtt gtc cca ata gat gat gtc tgg gac gac agc			2041
Gly Arg Asp Tyr Thr Val Val Pro Ile Asp Asp Val Trp Asp Asp Ser			
625	630	635	
att atg ctg tcc aaa gat ccc ata cct cct att gtg gga aac agt gga			2089
Ile Met Leu Ser Lys Asp Pro Ile Pro Pro Ile Val Gly Asn Ser Gly			
640	645	650	
aat cta gcc ata gct tac atg gat gtg ttt cga ccc aaa gtc cca atc			2137
Asn Leu Ala Ile Ala Tyr Met Asp Val Phe Arg Pro Lys Val Pro Ile			
655	660	665	
cat gtg gct atg acg gga gcc ctc aat gct tgt ggc gag att gag aaa			2185
His Val Ala Met Thr Gly Ala Leu Asn Ala Cys Gly Glu Ile Glu Lys			
670	675	680	
gta agc ttt aga agc acc aag ctc gcc act gca cac cga ctt ggc ctt			2233
Val Ser Phe Arg Ser Thr Lys Leu Ala Thr Ala His Arg Leu Gly Leu			
690	695	700	
agg ttg gct ggt ccc gga gca ttc gat gta aac acc ggg ccc aac tgg			2281
Arg Leu Ala Gly Pro Gly Ala Phe Asp Val Asn Thr Gly Pro Asn Trp			
705	710	715	

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gca acg ttc atc aaa cgt ttc cct cac aat cca cgc gac tgg gac agg	2329
Ala Thr Phe Ile Lys Arg Phe Pro His Asn Pro Arg Asp Trp Asp Arg	
720 725 730	
ctc ccc tac ctc aac cta cca tac ctt cca ccc aat gca gga cgc cag	2377
Leu Pro Tyr Leu Asn Leu Pro Tyr Leu Pro Pro Asn Ala Gly Arg Gln	
735 740 745	
tac cac ctt gcc atg gct gca tca gag ttc aaa gag acc ccc gaa ctc	2425
Tyr His Leu Ala Met Ala Ala Ser Glu Phe Lys Glu Thr Pro Glu Leu	
750 755 760	
gag agt gcc gtc aga gca atg gaa gca gca gcc aac gtg gac cca cta	2473
Glu Ser Ala Val Arg Ala Met Glu Ala Ala Asn Val Asp Pro Leu	
770 775 780	
ttc caa tct gca ctc agt gtg ttc atg tgg ctg gaa gag aat ggg att	2521
Phe Gln Ser Ala Leu Ser Val Phe Met Trp Leu Glu Glu Asn Gly Ile	
785 790 795	
gtg act gac atg gcc aac ttc gca ctc agc gac ccg aac gcc cat cgg	2569
Val Thr Asp Met Ala Asn Phe Ala Leu Ser Asp Pro Asn Ala His Arg	
800 805 810	
atg cga aat ttt ctt gca aac gca cca caa gca ggc agc aag tcg caa	2617
Met Arg Asn Phe Leu Ala Asn Ala Pro Gln Ala Gly Ser Lys Ser Gln	
815 820 825	
agg gcc aag tac ggg aca gca ggc tac gga gtg gag gct cgg ggc ccc	2665
Arg Ala Lys Tyr Gly Thr Ala Gly Tyr Gly Val Glu Ala Arg Gly Pro	
830 835 840 845	
aca cca gag gaa gca cag agg gaa aaa gac aca cgg atc tca aag aag	2713
Thr Pro Glu Glu Ala Gln Arg Glu Lys Asp Thr Arg Ile Ser Lys Lys	
850 855	
atg gag acc atg ggc atc tac ttt gca aca cca gaa tgg gta gca ctc	2761
Met Glu Thr Met Gly Ile Tyr Phe Ala Thr Pro Glu Trp Val Ala Leu	
865 870 875	
aat ggg cac cga ggg cca agc ccc ggc cag cta aag tac tgg cag aac	2809
Asn Gly His Arg Gly Pro Ser Pro Gly Gln Leu Lys Tyr Trp Gln Asn	
880 885 890	
aca cga gaa ata ccg gac cca aac gag gac tat cta gac tac gtg cat	2857
Thr Arg Glu Ile Pro Asp Pro Asn Glu Asp Tyr Leu Asp Tyr Val His	
895 900 905	
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Ala Glu Lys Ser Arg Leu Ala Ser Glu Glu Gln Ile Leu Arg Ala Ala	
910 915 920 925	
acg tcg atc tac ggg gct cca gga cag gca gag cca ccc caa gct ttc	2953
Thr Ser Ile Tyr Gly Ala Pro Gly Gln Ala Glu Pro Pro Gln Ala Phe	
930 935 940	
ata gac gaa gtt gcc aaa gtc tat gaa atc aac cat gga cgt ggc cca	3001
Ile Asp Glu Val Ala Lys Val Tyr Glu Ile Asn His Gly Arg Gly Pro	
945 950 955	
aac caa gaa cag atg aaa gat ctg ctc ttg act gcg atg gag atg aag	3049
Asn Gln Glu Gln Met Lys Asp Leu Leu Leu Thr Ala Met Glu Met Lys	

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960	965	970	
cat cgc aat ccc agg cgg gct cta cca aag ccc aag cca aaa ccc aat His Arg Asn Pro Arg Arg Ala Leu Pro Lys Pro Lys Pro Lys Pro Asn 975 980 985			3097
gct cca aca cag aga ccc cct ggt cgg ctg ggc cgc tgg atc agg acc Ala Pro Thr Gln Arg Pro Pro Gly Arg Leu Gly Arg Trp Ile Arg Thr 990 995 1000 1005			3145
gtc tct gat gag gac ctt gag tgaggctcct gggagttctcc cgacaccacc Val Ser Asp Glu Asp Leu Glu 1010			3196
cgcgaggtg tggacaccaa ttccggcctta caacatccca aattggatcc gttcgcgggt cccct			3256 3261
<210> 6 <211> 1012 <212> PRT <213> Infectious bursal disease virus <400> 6			
Met Thr Asn Leu Gln Asp Gln Thr Gln Gln Ile Val Pro Phe Ile Arg 1 5 10 15			
Ser Leu Leu Met Pro Thr Thr Gly Pro Ala Ser Ile Pro Asp Asp Thr 20 25 30			
Leu Glu Lys His Thr Leu Arg Ser Glu Thr Ser Thr Tyr Asn Leu Thr 35 40 45			
Val Gly Asp Thr Gly Ser Gly Leu Ile Val Phe Phe Pro Gly Phe Pro 50 55 60			
Gly Ser Ile Val Gly Ala His Tyr Thr Leu Gln Gly Asn Gly Asn Tyr 65 70 75 80			
Lys Phe Asp Gln Met Leu Leu Thr Ala Gln Asn Leu Pro Ala Ser Tyr 85 90 95			
Asn Tyr Cys Arg Leu Val Ser Arg Ser Leu Thr Val Arg Ser Ser Thr 100 105 110			
Leu Pro Gly Gly Val Tyr Ala Leu Asn Gly Thr Ile Asn Ala Val Thr 115 120 125			
Phe Gln Gly Ser Leu Ser Glu Leu Thr Asp Val Ser Tyr Asn Gly Leu 130 135 140			